

Starlight 650TVL Bullet Camera



Feature:

- 1/3" SONY EX-view 960H CCD, Hitachi 16bit DSP
- Ultra High Resolution 650TV Lines
- Super Low Min. Illumination 0.00001Lux
- Aspherical 2.8-10mm Lens with Auto Iris and IR-CUT Module
- Camera can always remain in color or automatically shift into B/W in low light conditions
- Full OSD Menu, optional Remote Control via RS485
- True Day Night, 3D digital color reduction
- Dual voltage DC12V/ AC24V operation optional
- IP67 Waterproof lever

Installation:

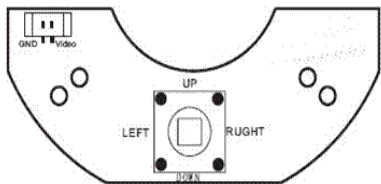
- To prevent shock or damage to the waterproof body, tighten all the screws and cover
- Adjust the visor to prevent the lens from direct sunlight
- Do not directly touch the front glass. To clean the dust, wipe with soft cloth with alcohol.
- Don't install it in the place where dithering and shake often
- Don't install it in the place where temperature is above 50°C or below -20°C
- Video line tie-in and DC tie-in must be avoided to touch water.
- If abnormal, please power off and contact the manufacturer

Note: Non-regulated power supply may cause camera damaged.

Technical Specifications:

Model No.	IV-HS9065VPA
Video System	NTSC/ PAL System
Sensor	1/3" SONY EX-view 960H CCD, Hitachi 16bit DSP
Pixel	NTSC: 976H*494V; PAL: 976H*582V
Resolution	Color: 650TV Lines; B/W (Signal Enhancement): 700TV Lines
Lens	Aspherical 2.8-10mm Lens with Auto Iris and IR-CUT Module
True Day & Night	YES (Removable IR-Cut)
Sync.	Internal, Line Lock
Scanning	2:1 Interlace
Signal Noise Ratio	52dB Min. (AGC Off, Sense Up Off)
Burst Level	0.286Vp-p
Sense Up	2-256
DRC	On/ Off
Eclipse	On/ Off
Communicate	RS485, PELCO-D Protocol
Electronic Shutter	NTSC: 1/60-1/120,000S; PAL: 1/50-1/120,000S
AGC	+26dB Max.
Gamma Correction	0.45
Video Output	1.0Vp-p/75Ω
Min. Illumination	0.00001Lux at F1.2 (Sense Up Mode)
Waterproof	IP67
Voltage Input	DC12V; DC12/ AC24V optional (±10%) MAX
Power Current	150mA @ DC12V; 210mA/100mA @ DC12V/ AC24V;
Operation Temp.	-10°C~50°C
Storage Temp.	-20°C~70°C
Humidity Range	20%~90% RH
Dimension	216L*75W*73H mm
Net Weight	650g

External OSD Operation



Press **ENTER** to open the main menu. Please note to press key "SAVE" to operate your changes on OSD MENU before exit.
Use left or right with Enter to operate the submenu of each item listed as follows:

SETUP MENU
LENS AUTO
SHUTTER/AGC AUTO
WHITE BAL ATW
BACK LIGHT OFF
PICT ADJUST
D-WDR OFF
MOTIONDET OFF
NEXT
EXIT SAVEALL

SET UP MENU
LENS.....AUTO/MANUAL
SHUTTER/AGC.....AUTO/MANUAL
WHITEBAL.....ATW/PUSH/USER1/USER2/
ANTI CR/MANUAL/PUSH LOCK
BACKLIGHT.....OFF/BLC/HLC
PICK ADJUST
ATR.....OFF/ON
MOTION DET.....OFF/ON
NEXT
EXIT.....SAVE ALL

SETUP MENU(NEXT)
PRIVACY OFF
DAY/NIGHT Auto
2DNR
CAMERA ID OFF
SYNC INT
LANGUAGE ENGLISH
CAMERA RESET
BACK
EXIT SAVE ALL

SET UP MENU(NEXT)
PRIVACY.....OFF/ON
DAY/NIGHT.....AUTO/EXIT1/EXIT2/COLOR/B/W
Y/C Y/C/OFF
CANMERA ID.....OFF/ON
SANC.....INT
LANGUAGE.....Chinese, English , Japanese, German
French,Russian,Portuguese, Spanish.
CAMERA RESET
NEXT
EXIT.....SAVE ALL

LENS
TYPE DC
MODE AUTO
SPEED 80
RETURN

LENS(AUTO IRIS)
TYPE.....DC/VIDEO
MODE.....AUTO/OPEN/CLOSE
SPEED.....0~255
RETURN

SHUTTER/AGC.....AUTO
HIGH LUMINANCE
MODE SHUT AUTO IRIS
BRIGHTNESS 32
LOW LUMINANCE
MODE AGC
BRIGHTNESS X0.5
RETURN

SHUTTER/AGC(AUTO SET UP)
HIGH LUMINANCE
MODE.....SHUT+AUTO IRIS/AUTO IRIS
BRIGHTNESS0~255
LOW LUMINANCE
MODEAGC/OFF
BRIGHTNESS.....X0.25,X0.5,X0.75X1.0
RETURN

SHUTTER/AGC.....MANUAL
MODE SHUTTER+AGC
SHUTTER 1/50
AGC 6.0
RETURN

SHUTTER/AGC(MANUAL SET UP)
MODE.....SHUTTER+AGC
SHUTTER.....1/50(1/10000~1/50)
AGC.....6.0(6.0~44.8)
RETURN

WHITEBAL
SPEED 239
DELAY CNT 1
ATWFRAME X2.0
ENVIRNMENT IN-
DOOR
RETURN

WHITE BAL (ATW)
SPEED239(0~255)
DELAY CNT.....1(0~255)
ATW FRAME.....X2.0(X1.5,X2,X0.5,X1.0)
ENVIRONMENT.....INDOOR/OUTDOOR
RETURN

PICK ADJUST OFF
MIRROR 0
BRIGHTNESS 128
CONTRAST 128
SHARPNESS 128
HUE 128
GAIN
RETURN

PICK ADJUST
MIRROR.....OFF/ON
BRIGHTNESS.....0(0~255)
CONTRAST130(0~255)
SHARPNESS.....140(0~255)
HUE.....120(0~255)
..GAIN.....140(0~255)
RETURN

MOTIONDETOFF/ON
RETURN

When access ON,press ENTER to confirm submenu to set up the motion area and sensitivity

ATR
LUMINANCE MID
CONTRAST MID
RETURN

ATR(ON)
LUMINANCE.....LOW/MID/HIGH
CONTRAST.....LOW/MID LOW/MID
/MID HIGH/HIGH
RETURN

PRIVACY.....OFF/ON
RETURN

When access ON,press ENTER to confirm submenu to set up the privacy area

DAY/NIGHT
BURST OFF
DELAY CNT 1
DAY→NIGHT 2
NIGHT→DAY 3
RETURN

DAY/NIGHT(AUTO)
BURSTOFF/ON
DELAY CNT.....1(1~255)
DAY→NIGHT2(1~255)
NIGHT→DAY3(1~255)
RETURN

2-DNR
NRMODE Y/C
Y LEVEL 001
C LEVEL 004
RETURN

NR
NR MODE.....OFF/C/Y/YC
Y LEVEL
C LEVEL
RETURN